Technical data

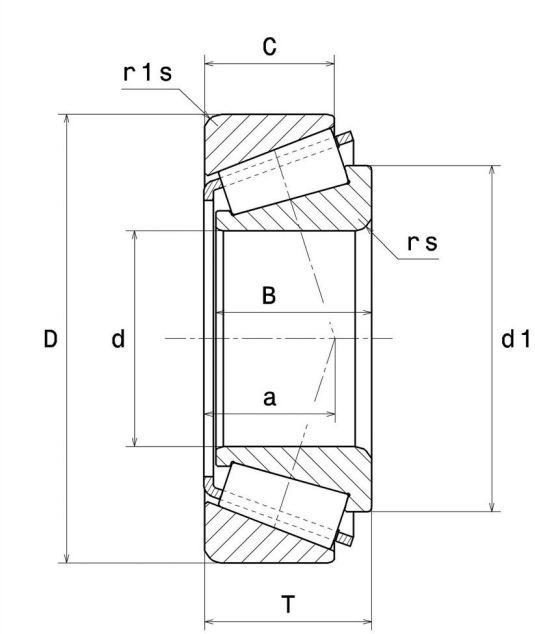
4T-LM11949L/LM11910

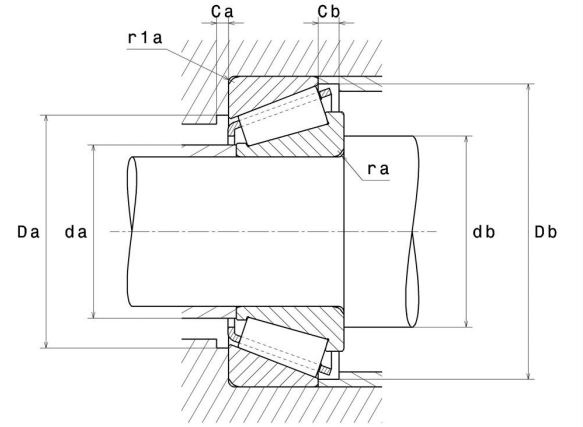
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



Visual(s)





Product definition

d	19.05 mm
D	45.24 mm
B	16.64 mm
C	12.06 mm
T	15.49 mm
a	9.9 mm
rs min	1.3 mm
r1s min	1.3 mm
e	0.3
Y2	2
Y0	1.1
Mass	0.13 kg
Brand	NTN

Product performance

Dynamic load, C	28.3 kN
Rating life coefficient, A2	1.4
Static load, C0	28.6 kN
Nlim (oil)	12,000 Tr/min
Nlim (grease)	8,900 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.41 Hz
Characteristic rolling element frequency, BSF	5 Hz
Characteristic outer ring frequency, BPF0	5.68 Hz
Characteristic inner ring frequency, BPFI	8.32 Hz

Abutment dimensions

ra max	1.3 mm
r1a max	1.3 mm

Calculation factors

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

$Fa/Fr \leq e$		$Fa/Fr > e$	
X	Y	X	Y
1	0	0.4	Y2

Equivalent static radial load

$Po = Xo.Fr + Yo.Fa$

X_0	Y_0
0.5	Y0

If $Po < Fr$, then use $Po = Fr$

The values for e, Y2 and Y0 are shown in the above table